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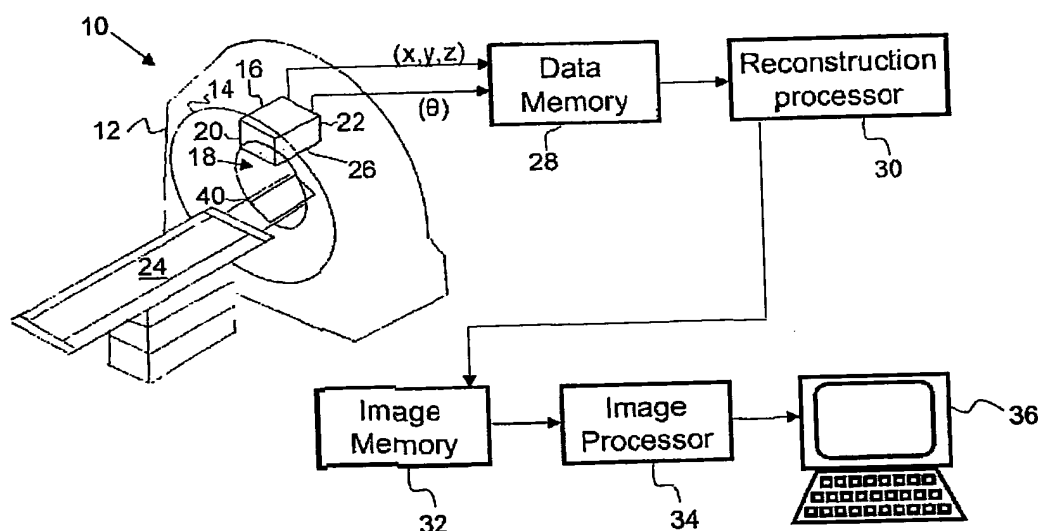
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[Continued on next page]

(54) Title: CALIBRATION METHOD AND APPARATUS FOR PIXILATED SOLID STATE DETECTOR



(57) Abstract: A system calibrates a solid state detector (20) for a radiation imaging device (10) in a single acquisition. A calibration phantom (40) emits radiation concurrently at at least first and second characteristic energy levels. A nuclear camera (16) generates associated sets of radiation data spanning both the first and second energy levels from the emitted radiation that is received by solid state detector (20). A means (64) determines associated centers of energy peaks and energy values of the generated data sets. A calibration means (80) calibrates at least one of gain, offset, performance and dead pixel correction based on the determined centers and peaks of the acquired data sets.



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